**Software Engineering Group Project**

**Test Specification**

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**1. Introduction**

**1.1 Purpose of this Document**

The purpose of this document is to list test that will need to be performed on the web interface and the desktop client throughout development. This document will help the group to spot what isn’t working and give them the chance to focus on making it work.

**1.2 Scope**

This document specifies test that are to be carried out during the overall project development. The test have been made and taken on from the Tasker Team Tasking System Requirement Specification [1].

**1.3 Objectives**

Objectives of this document:

* Outline test to be carried out on TaskerSRV
* Outline test to be carried out on TaskerMAN
* Outline test to be carried out on TaskerCLI

**2. TaskerSRV – Database Server**

**Reference: SRV-00**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| SRV-01 | FR1-1.1 | Check database stores team member forename | Enter team member forename.  “Samuel” | Forename should be stored in the database | Data is stored correctly |
| SRV-02 | FR1-1.2 | Check database stores team member surname | Enter surname of team member.  “Hyde” | Surname should be stored in the database | Data is stored correctly |
| SRV-03 | FR1-2.1 | Check database stores team member e-mail address | Enter e-mail address for team member. “[sah54@aber.ac.uk”](mailto:sah54@aber.ac.uk) | E-mail address should be stored in the database | Data is stored correctly |
| SRV-04 | FR1-2.2 | Check database does not store incorrect team member e-mail address | Enter invalid email address.  "\*?@?\*.?\*"  "simon@" | Error is thrown when entering invalid e-mail address against validation constraint | Data is not stored correctly |
| SRV-05 | FR2-1.1 | Check if database allows the addition of a title to a specified task | Add title to a task within the database.  “Take notes during lecture” | Title is added to task without an error being thrown | Data is stored correctly |
| SRV-06 | FR2-2.1 | Allocate a team member to a task | Team member is allocated the new task that is added to the database (Possible drop down menu if manually adding)  Select “Freddie” | “Freddie” is allocated a task from within the database | Data is stored correctly |
| SRV-07 | FR2-3.1 | Check a start date to specific task | check that the start date is correctly generated from the server side time.  change client date 3 days ahead then add a new task. | Start date is added to task and is either short or long format (Date format to be decided). | Date has gone off the server date and is in the correct format. |
| SRV-08 | FR2-4.1 | Add an expected date for completion of the set task | input due date 3 weeks and 2 days from now. | due date is added to the task and is correct | the task is added to the database. |
| SRV-09 | NEW-01 | Add an invalid expected date for completion of the set task | input due date 3 weeks and 2 days ago. | Error is thrown when an invalid date is submitted. | the task is not added to the database. |
| SRV-10 | FR2-5.1 | Allocate no team member to a task | Leave the team member section blank. | Error is thrown when failing to allocate a team member to the task. | the task is not added to the database. |
| SRV-11 | FR2-6.1 | Check task status is shown correctly for the client. | Create 3 tasks, leave one allocated to a team member, set one to abandoned, and one to completed. | Task changes status to corresponding option. | Task has a status and is shown as allocated, abandoned or completed. |

**3. TaskerMAN – Web Interface**

**Reference: MAN-00**

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| --- | --- | --- | --- | --- | --- |
| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| MAN-01 | FR3 | Modify the team member data stored in the database from the website. | Change “Freddie’s” name to “Steve” | Freddies name is now “Steve” | Team member data is modified and database updates accordingly |
| MAN-02 | NEW-01 | Modify the team member data stored in the database from the website. | Change “Freddie’s”account privileges to admin. | Freddies account privileges are now admin. | Team member data is modified and database updates accordingly |
| MAN-03 | NEW-02 | Modify the team member data stored in the database from the website. | Change “Freddie’s”account privileges to non admin. | Freddies account privileges are now non admin. | Team member data is modified and database updates accordingly |
| MAN-04 | NEW-03 | Modify the team member data stored in the database from the website. | Change “Freddie’s” email address to “iamnotfreddie@gmail.com” | Freddies email address is now “iamnotfreddie@gmail.com” | Team member data is modified and database updates accordingly |
| MAN-05 | NEW-04 | Modify the team member data stored in the database from the website. | change “Freddies” password to “Password1!” | Freddies password is now “Password1!” | Team member data is modified. |
| MAN-06 | FR4 | Create a task | From the website, create a new task called “Task 1” with the due date “2 weeks from now” and allocate “Freddie” to do it. | new task is created with the desired details. | Task is created correctly. |
| MAN-07 | FR5 | Reallocation of a task | From the website, reallocate existing task to a different team member.  Change from “Freddie” to “Simon” | Task is now allocated to “Simon” | Task is now allocated to “Simon” on the database. |
| MAN-08 | NEW-05 | Change Task name | From the website, change task name to “New task name” | Task name is now changed to “New task name” | Task name is now changed on the database. |
| MAN-09 | NEW-06 | Change due date. | add 2 weeks onto the current due date. | due date is extended by 2 weeks. | due date is now changed on the database. |
| MAN-10 | FR6 | Abandonment of a task | From the website, mark any task as abandoned | The task is now abandoned and should appear as so. | The task is updated on the database to show as abandoned. |
| MAN-11 | FR6.1 | Mark task as Completed | From the website, mark any task as completed | The task is now completed and should appear as so. | The task is updated on the database to show as Complete. |
| MAN-12 | FR7 | View team members tasks | From the website, view list of task the the allocated team member(s). | All team member’s tasks are listed in order of due date. | All tasks are correct and in order. |
| MAN-13 | NEW-07 | view ordering of team members list. | Team member appear in alphabetical order via name. | Drop down menu displays team members via name in alphabetical order. | all members are correct and in order. |
| MAN-14 | NEW-08 | Create task without title. | Input an empty title.  “ “. | Error is thrown telling user task title required | task isn't created and error thrown. |
| MAN-15 | NEW-09 | Create task with past due date. | create a task with a due date 2 weeks in the past. | Error is thrown telling user due date must be in the future. | task isn't created and error thrown. |
| MAN-16 | NEW-10 | Create a new user with same details as an existing user. | Create a user with the same details as Sam | Error is thrown telling user “User already exists.” | User isn't created and error is thrown. |
| MAN-17 | NEW-11 | Test that passwords that are too long are rejected. | Insert password with 13 characters.  “Password1234!” | Error message is thrown saying “Password too long”. | Password is rejected, error message is thrown. |
| MAN-18 | NEW-12 | Test that passwords that are too short are rejected. | Insert password with 5 characters.  “Pass!” | Error message is thrown saying “Password too short”. | Password is rejected, error message is thrown. |
| MAN-19 | NEW-13 | Test that passwords without special characters are rejected. | Insert password without special character.  “Password” | Error message is thrown saying “Password requires special characters”. | Password is rejected, error message is thrown. |
| MAN-20 | NEW-14 | Test valid password is accepted. | Insert password within criteria.  “Password1!” | Password is accepted. | Password is accepted. |
| MAN-21 | NEW-15 | Test password is present. | Insert password. “” | Error message is thrown saying “Password is required”. | Password is rejected, error message is thrown. |
| MAN-22 | NEW-16 | Test rejected if not present. | Insert email. “” | Error message is thrown saying “Email is required” | Email is rejected, error message is thrown. |
| MAN-23 | NEW-17 | Test that invalid emails are rejected. | Insert email. “NotAnEmail” | Error message is thrown saying “Email is not valid” | Email is rejected, error message is thrown. |
| MAN-24 | NEW-18 | Test email is accepted if valid. | Insert email. “sis23@aber.ac.uk” | Email is accepted. | Email is accepted. |
| MAN-25 | NEW-19 | Test name is rejected if not present. | Insert name. “” | Error message is thrown saying “Name is required” | Name is rejected and error message is thrown. |
| MAN-26 | NEW-20 | Test name is rejected if over 50 characters. | Insert name “Hubert Blaine Wolfe­schlegel­stein­hausen­berger­dorff” | Error message is thrown saying “Name is too long” | Name is rejected and error message is thrown. |
| MAN-27 | NEW-21 | Test name is accepted if valid. | Insert name “John Smith”. | Name is accepted. | Name is accepted. |

**4. Tasker CLI – Desktop Application**

**Reference: CLI-00**

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| **Test Reference** | **Required Test** | **Test Content** | **Input** | **Output** | **Pass Criteria** |
| CLI-01 | FR8-1 | User Identification | Log in using email address “[sis22@aber.ac.uk](mailto:sis22@aber.ac.uk)” and password “scott” | User is taken to homepage. | User is logged in |
| CLI-02 | FR8-2 | Local storage of tasks | load list of tasks, disconnect from the internet and load task again. | All the tasks previously seen, load up. | All the stored tasks load and display correctly. |
| CLI-03 | FR9 | Task Synchronisation | Edit and save a task using the web app. Then refresh Java app. | Edits visible on the java app. | Edit updated to Java app to match web app. |
| CLI-04 | FR10 | Local editing | Select a task from the current list and view the details, edit task steps in comments and change the task status to completed | Details of selected task displayed, edits will be displayed as made. | Edited tasks will be saved to the database. |
| CLI-05 | FR11 | Synchronisation timing | update the web app and within 5 mins the database should be updated and synchronized.Check this is the case. | is the database updated, and new task viewable from different machine. | Database is updated and synchronized after 5 mins. |

**References**

[1] Software Engineering Group Project. Requirement Specification. N.W.Hardy SE.QA.RS. 1.1. Release

**Document History**

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| --- | --- | --- | --- | --- |
| **Version** | **CCF No.** | **Date** | **Changes Made** | **Changed By** |
| 1.0 | N/A | 2015-11-04 | First word draft of the test specification for group project | sah54 |
| 1.1 | N/A | 2015-11-13 | Updated documentation to agree with SE.QA.03 documentation standards | sah54 |
| 2.0 | N/A | 2015-12—02 | Updated TaskerMAN project tests | sah54 |
| 3.0 | N/A | 2016-01-25 | Overhauled everything | sis22 and frs13 |